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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/701,246	11/04/2003	Ming Yeh	7268U-240CPA	6090	
2292 7	590 05/18/2005		EXAMINER		
BIRCH STEV	VART KOLASCH & B	MAI, ANH T			
PO BOX 747 FALLS CHURCH, VA 22040-0747			ART UNIT	PAPER NUMBER	
			2832	2832	
			DATE MAIL ED: 05/19/2009	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Commons		10/701,246	YEH ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Anh T. Mai	2832				
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)[	Responsive to communication(s) filed on	_·					
2a) <u></u> ☐	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🖂	Claim(s) 1-27 is/are pending in the application.						
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	5)  Claim(s) is/are allowed. 6)  Claim(s) <u>1-6,9-15 and 18-26</u> is/are rejected. 7)  Claim(s) <u>7,8,16,17 and 27</u> is/are objected to.						
6)⊠							
·							
8)[	8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
	ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail Da	ate atent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 11/4/03.  5) Notice of Informal Patent Application (PTO-152)  6) Other:							

Art Unit: 2832

#### DETAILED ACTION

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-3, 5-6, 9-12, 14-15, 18-26 are rejected under 35 U.S.C. 103(a) as being unpatentable over SMITH [5175525].

With respect to claims 1, 10 and 19, Smith discloses a transformer comprising a metal core 212; plurality of coil modules of insulated primary winding 220, secondary winding 230 stacked one on another and each module surrounds the metal core [figure 5]. Smith only discloses the encapsulated primary winding but not secondary winding. It would have been obvious to provide secondary winding encapsulated same as in the primary winding in order to provide the insulation between the windings.

With respect to claims 2 and 11, the coils of the module are of a wound portion of at least one conductive wire [figure 3B].

With respect to claims 3 and 12, the coils of the module are of coil shape portion [fig 5].

With respect to claims 5&14, the coils are arranged in a stack of coil [fig 5].

Art Unit: 2832

With respect to claims 6&15, the coils are connected in series.

With respect to claims 9&18, a plurality of conductive wires in one coil module and the coils of these conductive wires are separated by the encapsulator.

With respect to claims 20-26, the claims are counterpart to the product of claims 1-2 and methods steps are therefore inherent for manufacturing a transformer comprising windings being encapsulated in the encapsulator.

3. Claims 4 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over SMITH in view of FUSHIMI [6650218]

Smith discloses the invention as claimed as cited above except for the coils arranged in substantially the same plane. Fushimi discloses primary winding 701 and secondary 601 wound on side legs 103 of the core [fig 1]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to arrange the windings as taught by Fushimi to Smith. The motivation would have been to provide different configuration of the transformer. Therefore, it would have been obvious to combine Fushimi with Smith.

### Allowable Subject Matter

4. Claims 7-8, 16-17 and 27 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7, 16 and 27 recite inter alia, the insulating encapsulator is mixed with heat conductive material.

Art Unit: 2832

Claims 7, 16 and 27 recite inter alia, the insulating encapsulator is mixed with heat conductive material.

The references of record do not teach or suggest the aforementioned limitation, nor would it be obvious to modify those references to include such limitation.

#### Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2832

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

am

ANH MAI PRIMARY EXAMINER